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The center has considerable equipment resources available on campus, and access to facilities at national laboratories and industrial partners. Of specific interest was the Gleeble 3500 thermal-mechanical testing system which defines a new era in physical simulation and thermal-mechanical testing.

The direct resistance heating system of the Gleeble 3500 can heat specimens at rates of up to 10,000C/second, or can hold steady-state equilibrium temperatures. High thermal conductivity grips hold the specimen, making the Gleeble 3500 capable of high cooling rates. An optional quench system can achieve cooling rates in excess of 10,000°C/second at the specimen surface. The Gleeble 3500 mechanical system is a complete, fully integrated hydraulic servo system capable of exerting as much as 10 tons of static force in tension or compression. Displacement rates as fast as 1000mm/second can be achieved. If you are interested in finding out more please contact FIERF Magnet School Professor Dr. Philip Nash, Director of the Thermal Processing Technology Center and Professor in the Mechanical, Materials and Aerospace Engineering Department of IIT at phone number (312) 567 3056 or via email: nash@iit.edu If you are looking for engineering talent please contact the FIERF Office for information on Graduate Students seeking employment in forging or to find summer Interns from FIERF Magnet Schools.

